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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,176	03/04/2002	Chang-Lun Chen	MXIC 1514-1	4736
22470	7590	09/20/2005	EXAMINER	
HAYNES BEFFEL & WOLFELD LLP P O BOX 366 HALF MOON BAY, CA 94019			KOSTAK, VICTOR R	
			ART UNIT	PAPER NUMBER
			2614	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/090,176	<b>Applicant(s)</b> CHEN ET AL.	
	<b>Examiner</b> Victor R. Kostak	<b>Art Unit</b> 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 12-35 is/are allowed.
- 6) ☒ Claim(s) 1,9 and 11 is/are rejected.
- 7) ☒ Claim(s) 2-8 and 10 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>04 March 2002</u> | 6) <input type="checkbox"/> Other: ____.  |

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. Note MPEP 606.01.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Donovan #5,914,753 (cited by applicant).

The system of Donovan (noting particularly Figs. 11 and 14-20) involves bridging (or transitioning) from an input video format to an output format, wherein a video format is characterized by a frame rate, a line count, active lines per frame, pixels per line, active pixels per line, (as well as horizontal and vertical timing, and aspect ratio). An input stream having designated format characteristics is provided by VGA controller (Fig. 15) to a convertor 206 from which an output video stream is generated for eventual display on the shown TV. Fig. 16 depicts the conversion circuit components including buffers that contain input lines stored at the input clock rate, the processing controlled by controller 320. Convertor 206 (Fig. 15) has sent to it parameters from table element 204, including reference clock source, and convertor 206 provides an output clock responsive to the reference clock which in turn provides the display clock (NTSC standards) used to generate the output format characteristics that include the horizontal and vertical timing involving the line and frame lengths. The output rate is figured to be the same as the input frame rate (e.g. col. 3 lines 18-24).

The system enables the user to generate any of plural conversion factors to both the horizontal and vertical counts (i.e. output lines per frame different from the input line count, and different output pixels per line than that of the input: e.g. col. 1 lines 12-15; Figs. 17-20). It would therefore have been obvious to one of ordinary skill in the art to consider the application of selective line count conversion as resulting in a variable count of lines per frame, as well as the selectivity of pixels per line being variable by virtue of the user having selection of parameters (noting also the variable amounts of pixels per line in Fig. 17, for example, in that selected format), thereby meeting claim 1.

As for claim 9, Donovan also incorporates single or dual phase-locked loops (col. 12 line 39 – col. 14 line 5), the second involving division. It would have been obvious to use a single PLL with a divider just as well as a dual PLL for the purpose of limiting the PLL hardware to a single unit.

As for claim 11, it would also have been obvious to consider the plural options involving both the input settings (element 212 and the inputs thereto) and the conversion settings (applied to convertor 206 by table 204) as plural bridging (transitioning) processes since they provide plural parameters to be selected in the conversion process, which is carried out in stages.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Claims 2-8, 10 and 12-35 appear allowable over the prior art.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor R. Kostak whose telephone number is (571) 272-7348.

The examiner can normally be reached on Monday - Friday from 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

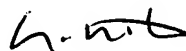
**Any response to this action should be mailed to:**

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P.O. Box 1450  
Alexandria, Virginia 22313-1450

**Or faxed to:**

**(571) 273-8300**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (703) 308-HELP.



Victor R. Kostak  
Primary Examiner  
Art Unit 2614

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